

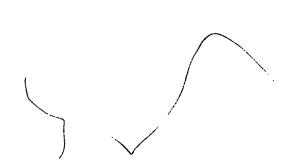
## United States Patent and Trademark Office

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DATE MAILED: 03/12/2004

FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 9-13528-77US 6470 01/24/2000 09/489,929 Richard A. Lodge EXAMINER 20988 03/12/2004 TRAN, PABLO N **OGILVY RENAULT** 1981 MCGILL COLLEGE AVENUE ART UNIT PAPER NUMBER **SUITE 1600** MONTREAL, QC H3A2Y3 2685 **CANADA** 

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application No.	Applicant(s)	
Office Action Summary		09/489,929	LODGE ET AL.	
		Examiner	Art Unit	
		Pablo N Tran	2685	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1)⊠	Responsive to communication(s) filed on 22	December 2003.		
-		is action is non-final.		
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims				
5)□ 6)⊠ 7)⊠	<ul> <li>4)  Claim(s) 1-54 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-9,13-18,21-29,33-38,41-47,49-52 is/are rejected.</li> <li>7)  Claim(s) 10-12,19,20,30-32,39,40,48,53 and 54 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>			
Application Papers				
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>				
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	Paper No(s)/Mail Da  5) Notice of Informal P  6) Other:	atent Application (PTO-152)	

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### **DETAILED ACTION**

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## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6, 21, and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by *Akita et al.* (5,383,221).

As per claims 1 and 21, *Akita et al.* disclosed a method of controlling data traffic in a wireless communications network comprising a plurality of wireless terminals and base stations wherein the method having the steps of examining performance each wireless link to identify a poorly performing wireless link and temporarily interrupting the bi-directional data transmission over the poorly performing wireless link (col. 6/ln. 4-63).

As per claims 6 and 26, *Akita et al.* disclosed suspending transmission of a data frame over the poorly performing wireless link (col. 6/ln. 4-63).

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 2-5, 7-9, 13-18, 22-25, 27-29, 33-38, 41-47, and 49-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Akita et al.* (5,383,221).

As per claims 2, 22, and 42, *Akita et al.* disclosed monitoring one or more performance parameters related to each wireless link but do not specifically disclose comparing each monitoring performance parameters to a respective predetermined threshold. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of comparing the link quality against a threshold, well known, to the monitoring method of *Akita et al.*, to provide reliable and sensitive measurement in order in order to improve communication links but also to effectively utilize system resources.

As per claims 3-4, 9, 13-14, 17, 23-24, 29, 33-34, 37, 43-44, 47, 49, and 50-51, Akita et al. do not specifically disclosed the performance parameters related to each wireless link are based on interference on the wireless link and comprises any one or more of a S/N ratio, a user data throughput rate, a C/I ratio, a BER ratio, suspend frames, or dropped frames. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such measurements of the performance parameters as stated above, well known, to the monitoring method of Akita et al., to provide reliable and sensitive measurement in order to save power but also to effectively utilize system resources.

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As per claims 5, 25, and 45, *Akita et al.* do not explicitly disclosed an average, taken over a number of successive burst, of any one or more of the S/N ratio, the C/I ratio, the user data throughput rate, or the BER ratio. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of taking an average measurement of such performance parameter, well known, to the communication systems of *Akita et al.* to provide an utmost accurate measurement prior to disconnected the poorly performance wireless link.

As per claims 7-8, 15-16, 27-28, and 35-36, *Akita et al.* do not disclosed resuming transmission of the data frame after a delay period of random length. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of re-transmitting the drop frame(s), well known, to the communication systems of *Akita et al.* to provide a reliable communication system such that data transmission will be delivered to the user.

As per claims 18, 38, and 52, *Akita et al.* do not disclosed dropping the communication links if a number of dropped frames exceed a threshold. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of drop the communication link(s), well known, to the communication systems of *Akita et al.* to effectively utilize system resources.

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As per claim 41, *Akita et al.* do not disclose such method of controlling data traffic in a wireless communications network for a base station. However, it would have been obvious to one of ordinary skill in the art to incorporated such method of controlling data traffic as taught in *Akita et al.* for a base station in order to effectively utilize system resources for a zone, cell, or a predetermined area.

As per claim 46, *Akita et al.* disclosed suspending transmission of a data frame over the poorly performing wireless link (col. 6/ln. 4-63).

### Allowable Subject Matter

5. Claims 10-12, 19-20, 30-32, 39-40, 48, and 53-54 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kayama et al. (6,614,770), Kimura et al. (6,560,207), Laakso et al. (6,456,605), Ghiazza (6,397,053), Abe (6,216,385), Andersson et al. (6,212,176), Pierson, Jr. (6,195,346), Alberty et al. (6,178,330), Takai (6,128,507), Taki (6,111,909), Kotzin (6,108322), Kondo (6,081,727), Foladare et al. (6,049,602), Andresen (5,937,349), Olds et al. (5,926,767), O'Mahony (5,878,120), Johnson et al. (5,822,300), Bergin et al.

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(5,826,198), Kurobe (5,592,225, and Fisher (EP597719B1) disclose method for

transmission disruption in a radiotelephone system.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Pablo Tran whose telephone number is (703)308-7941.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Daniel Hunter, can be reached at (703)308-6732.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Technology Center 2600 Customer Service Office

whose telephone number is (703) 306-0377.

PABLO N. TRAN
PRIMARY EXAMINER

March 5, 2004

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